

OBSERVATIONS ON SOME AUSTRALIAN FOREST INSECTS.

18. FOUR NEW SPECIES OF GLYCASPIS (HOMOPTERA: PSYLLIDAE) FROM QUEENSLAND.

By K. M. MOORE, Forestry Commission of New South Wales.

(Eight Text-figures.)

[Read 29th April, 1964.]

Synopsis.

Specimens of the genus *Glycaspis* in the collections of the Department of Primary Industries, Brisbane, the Queensland Museum, Brisbane, and the Bernice P. Bishop Museum, Honolulu, Hawaii, were examined, and four new species are described.

The preparation of specimens, the procedure for the descriptions and the scale of drawings are the same as for previous specimens (Moore, 1961). Setae are drawn to scale, and the following descriptions are based on dried specimens.

GLYCASPIS (ALLOGLYCASPIS) BRIMBLECOMBEI, sp. nov.

Named after Dr. A. R. Brimblecombe of the Department of Primary Industries, Brisbane, who collected the type specimen.

General Colour: Variable; yellow, pale yellow or lemon yellow and either with or without brown and black markings and red suffusion.

Male: Head: width 0.68 mm.; vertex: along suture 0.32 mm., width 0.37 mm., cream, with red anteriorly and laterally, foveae pale brown, suture and posterior aspect

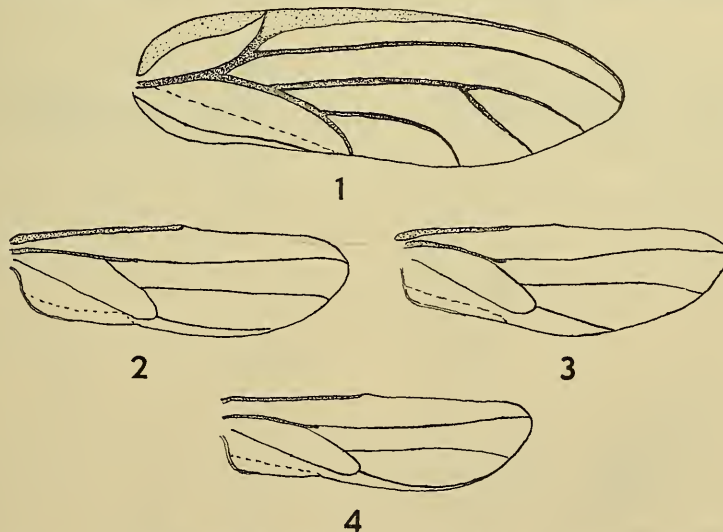
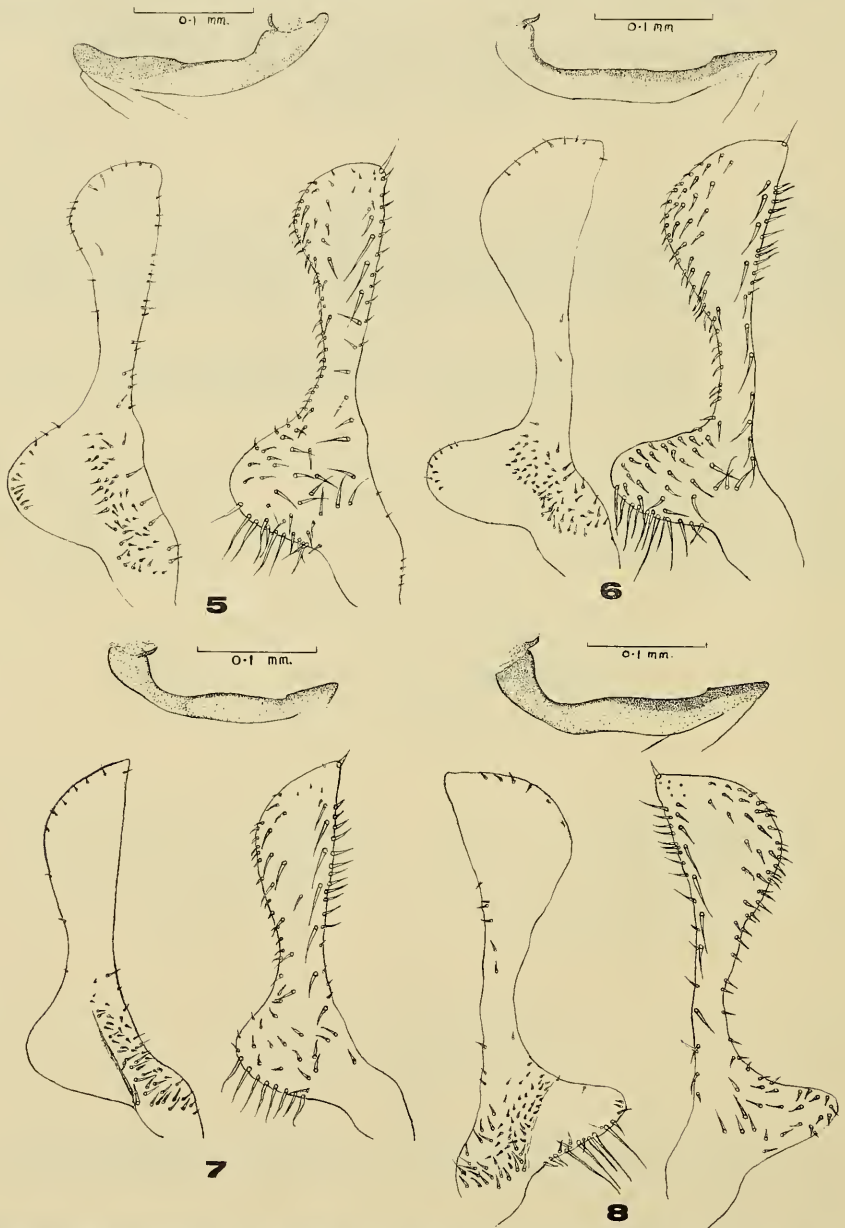


Fig. 1.—Typical forewing venation of *Glycaspis* (*Alloglycaspis*) spp.

Figs 2, 3 and 4.—Typical hindwing venation of *Glycaspis* (*Alloglycaspis*) spp. showing variation in shape of Cu₁.

of head brown or black; genal processes: length (from tips to anterior edge of antennal foveae) 0.34 mm., widely divergent, cream suffused red dorsally; antennae: length 1.51 mm., segs. 1 to 3 cream, segs. 4 to 8 darkening from pale brown to dark brown, segs. 9 and 10 black. Pronotum: width 0.54 mm., cream with foveae pale brown, depressions at bases of lateral prominences black, median suture pale brown.

Prescutum: suffused brown. Scutum: median longitudinal area whitish, remainder pale yellow. Scutellum: pale cream. Metanotum: pale brown laterally. Post-metanotum: yellow, with a dark brown area each side toward anterior border.



Figs 5-8.—Aedeagus and claspers of (5) *Glycaspis brimblecombei*, sp. nov., (6) *Glycaspis ochros*, sp. nov., (7) *Glycaspis hackeri*, sp. nov., (8) *Glycaspis mesicola*, sp. nov.

Abdomen: yellow, with a transverse central pale brown stripe on each of segs. 1 to 4; other segments cream. Legs cream. Genitalia: claspers and aedeagus as in Text-figure 5. Length of aedeagus (3 specimens): Extremes 0.214 mm. to 0.225 mm. Forewing: length 2.80 mm., width 0.85 mm., venation pale yellow with darker yellowish suffusion toward posterior one-third. Hindwing: Cu, as in Text-figure 2.

Female: General colour as for the male, but dark marks more intense and extensive, and often suffused red; anal aperture bordered black at outer posterior angles.

Host-plant: *Eucalyptus* sp. (blue gum).

Type Locality: Brisbane, Queensland.

Types: Holotype male on slide labelled "Brisbane, 25 v 1936, A. R. Brimblecombe, Host, blue gum", deposited with the Queensland Museum, Brisbane. Paratypes: 1 slide labelled as above, to the Queensland Museum; 1 slide labelled "Brisbane, 21 x 1925, Host, blue gum", to The Australian Museum, Sydney. Dried specimens: 3 females to the Queensland Museum, 1 female to The Australian Museum.

This species appears to be nearest to *G. (A.) baileyi*, but is separable by the colouring, and the male claspers and aedeagus.

GLYCASPIS (ALLOGLYCASPIS) OCHROS, sp. nov.

Gr. *ochros* = pale.

General Colour: Pale yellow; black markings absent.

Male: Head: width 0.68 mm.; vertex: along suture 0.32 mm., width 0.39 mm., pale yellow; genal processes: length 0.34 mm., cream; antennae: length 1.68 mm., segs. 1 to 4 pale cream, segs. 5 to 8 suffused pale brown, segs. 9 and 10 dark brown. Pronotum: width 0.49 mm., pale yellow. Prescutum and scutum yellow. Scutellum and metascutellum cream. Metanotum and post-metanotum, yellow. Abdomen: pale yellow suffused pale blue-green. Legs cream. Genitalia: claspers and aedeagus as in Text-figure 6. Length of aedeagus (4 specimens): Extremes 0.232 mm. to 0.248 mm. Forewing: length 2.41 mm., width 0.78 mm., venation cream suffused pale brown. Hindwing: Cu_1 as in Text-figure 4.

Host-plant: Not known.

Type Locality: Brisbane, Queensland.

Types: Holotype male and allotype female on slide labelled "K. Grove, Em. 10 x 1908", deposited with the Queensland Museum, Brisbane. Paratypes: 1 slide labelled as above to The Australian Museum, Sydney.

This species appears to be nearest to *G. (A.) australoraria*, but is separable by the male claspers and aedeagus.

GLYCASPIS (ALLOGLYCASPIS) HACKERI, sp. nov.

Named after the collector of these specimens, Mr. H. Hacker.

General Colour: Pale greenish-yellow.

Male: Head: width 0.66 mm.; vertex: along suture 0.32 mm., width 0.37 mm.; genal processes: length 0.32 mm.; antennae: length 1.68 mm., segs. 1 and 2 greenish-yellow, segs. 3 to 8 darkening from pale brown to dark brown, segs. 9 and 10 black. Pronotum: Width 0.49 mm. Prescutum, scutum, scutellum, meta-scutellum, metanotum, post-metanotum, abdomen and legs pale greenish-yellow. Genitalia: Claspers and aedeagus as in Text-figure 7. Length of aedeagus (3 specimens): Extremes 0.198 mm. to 0.203 mm. Forewing: length 2.59 mm., width 0.76 mm. Hindwing: Cu_1 as in Text-figure 4.

Host-plant: Not known.

Type Locality: Brisbane, Queensland.

Types: Holotype male and co-type male on slide labelled "Brisbane, 4 x 1939. H. Hacker", deposited with the Queensland Museum, Brisbane. Paratypes: 1 slide labelled as above, to The Australian Museum, Sydney.

This species appears to be nearest to *G. (A.) lactea*, but is separable by the shape of the male claspers and aedeagus, and Cu_1 of hindwing.

GLYCASPIS (ALLOGLYCASPIS) MESICOLA, sp. nov.

L. mesa = between; *-icola* = dwelling. Referring to the occurrence of the species in the border area of New South Wales and Queensland.

General Colour: Variable; cream suffused red, lightly marked with black; similar to *G. brimblecombei*.

Male: Head: width 0.66 mm.; vertex: along suture 0.32 mm., width 0.37 mm., posterior border and posterior three-quarters of suture lightly marked with black; genal processes: length 0.34 mm.; antennae: length 1.78 mm.; segs. 1 to 3 cream, segs. 4 to 8 progressively darkening to dark brown, segs. 9 and 10 black. Pronotum: bases of lateral prominences and depressions at two-thirds, brown. Prescutum: lateral edges lightly marked with brown. Scutum: a broad median area cream, lateral areas rose-red. Scutellum: cream. Metanotum: red. Post-metanotum: yellow. Abdomen: yellow with pale transverse lines on some segments. Genitalia: suffused red; claspers and aedeagus as in Text-figure 8. Length of aedeagus (two specimens): 0.230 mm., 0.239 mm. Forewing: length 2.59 mm. Hindwing: Cu_1 as in Text-figure 4.

Host-plant: Not known.

Type Locality: Brisbane, Queensland.

Types: Holotype male, allotype female on slide labelled "Brisbane, Queensland, 4 x 1939, H. Hacker", deposited with the Queensland Museum, Brisbane. Paratype: 1 slide labelled "Coolangatta, Queensland. Coll. F. Muir, viii 1919", to the Bernice P. Bishop Museum, Hawaii.

This species appears to be nearest to *G. (A.) ignea*, but is separable on the male claspers and aedeagus, and Cu_1 of hindwing.

Acknowledgements.

The writer is grateful to Dr. A. R. Brimblecombe, Deputy Government Entomologist of the Department of Primary Industries, Brisbane; the late Mr. G. Mack, past Director of the Queensland Museum, Brisbane; and Dr. J. L. Gressitt, Director of the B. P. Bishop Museum, Honolulu, Hawaii, for the loan of specimens in the collections of those Institutions.

Reference.

MOORE, K. M., 1961.—PROC. LINN. SOC. N.S.W., 86 (1): 128-167.